

Region 3 GPRA Baseline RCRA Corrective Action Facility

ITT Industries - Night Vision Division

**7635 Plantation Road
Roanoke, VA 24019
Congressional District 6
EPA ID #: VAD003123072
Last Updated 6/27/2003**

Current Progress at the Site

In 1992, trichloroethylene (TCE) was discovered in a supply well located south of the facility at the Tinker View Trailer Park. Upon notification of this discovery, ITT Night Vision immediately connected residents and businesses in the affected area to the county water system. Field investigations began at once, and ITT Night Vision completed a Phase I study prior to the signing of a RCRA Corrective Action Administrative Order on Consent with EPA in 1994. ITT subsequently completed several additional investigative phases, and in January 2000 EPA approved ITT Night Vision's RCRA Facility Investigation (RFI). The investigation determined that groundwater is the primary affected media. The groundwater is contaminated with volatile organic compounds and the groundwater contamination emanates from three subsurface source areas.

During the RFI, it appeared to ITT Night Vision that contaminants were naturally degrading to some extent through biological processes. Consequently, prior to completing the RFI, ITT Night Vision chose to pilot test an enhanced bioremediation system at one of the source areas as an interim measure. In this method, air, gaseous nutrients and methane are injected via wells in order to stimulate the growth of indigenous bacteria to degrade the contaminants. In 1998, Superfund's Innovative Technology Evaluation (SITE) Demonstration Program accepted ITT Night Vision's implementation of this interim measure activity into their program. The SITE's program's goal is to communicate successful innovative technologies, thereby enhancing remedial options and reducing costs at other sites in the future. The SITE program conducted extensive groundwater monitoring in the pilot test area to develop statistical verification of the efficiency of this technology. The results were very favorable, and in 2000 ITT Night Vision expanded its initial enhanced bioremediation system from one injection well to four injection wells.

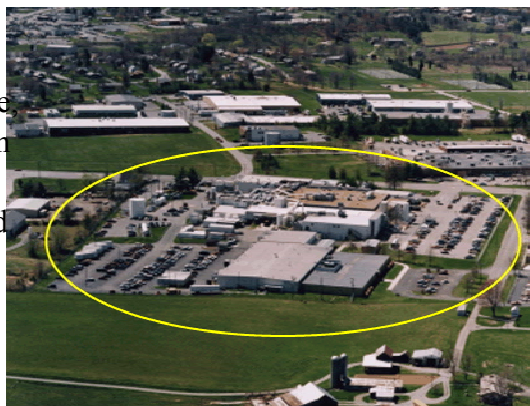
Prior to RFI approval, ITT Night Vision also set out to address another source area located near Building No. 1. The objective of this interim measure was to assess a soil vacuum extraction (SVE) system. This technology is designed to clean up contaminated soils above the water table. ITT Night Vision began to test an SVE system in December of 1999, and based on positive results, began more extensive testing in August of 2000. This SVE testing was completed in June 2001 at Building No. 1.

In June of 2000, ITT Night Vision submitted a Corrective Measures Study (CMS) to EPA. ITT Night Vision aims to clean up groundwater to drinking water standards by actively addressing the source areas and by relying on natural attenuation for the more dilute portions of the plume. As part of the CMS, ITT is performing additional pilot tests. Based on the successful performance of the pilot enhanced bioremediation system under the SITE Program, ITT Night Vision installed similar systems at the two other source areas located near Building No. 1. In addition, ITT Night Vision continues to operate and optimize the original enhanced bioremediation system at Building No.3.

In October 2002, EPA approved an updated Community Relations Plan. This Plan describes ITT's ongoing strategy to inform the public about Corrective Action and to verify that there is no exposure to contaminated groundwater while ITT continues to cleanup the plume.

Site Description

ITT Night Vision, a division of ITT Industries Inc., is an active manufacturing complex. Operations have been ongoing since 1958. Currently ITT Night Vision employs approximately 900 employees. The facility consists of three major buildings and associated infrastructure located on two parcels of land in Roanoke, Virginia. EPA issued the facility two EPA identification numbers because the parcels are not contiguous. The portion circled in the picture is the larger site parcel and covers about 17 acres.



Site Responsibility

RCRA Corrective Action activities at this facility are being conducted under an EPA Region 3 Section 3008(h) Corrective Action Consent Order.

Contaminants

Volatile organic compounds (VOCs) are the primary contaminants of concern. Those found include: acetone, isopropanol, trichloroethylene (TCE) and its breakdown products, and 1, 1, 1 trichloroethane (TCA), and its breakdown products.

Community Interaction

EPA and ITT held an informational meeting on November 29, 2000 to update the public on the status of the project. Citizens attending the meeting were satisfied with the work completed and the planned activities; and the meeting received a positive write-up in the Roanoke Times.

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For more information about EPA's corrective action webpage, including Environmental Indicators, please visit our site at: www.epa.gov/reg3wcmd/correctiveaction.htm

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